# Automatic Battery Test System

Tim Pennock

MSD-970-1

National Stock Number:

6130-01-508-3397

# MSD-970-1 Battery Test System

Solution to high end battery testing

# MSD-970-1 Battery Test System

- User programmed battery profiles
  - Bar code scan
  - Stored algorithm selection
- Up to 10 steps per battery profile
  - Constant current/voltage charging
  - Constant current discharging
  - Open circuit stand
  - Ampere hour capacity test

# MSD-970-1 Features

- Tests any secondary battery chemistry
- PC interface for serial data collection
- Store and select multiple battery profiles
  - Up to 80 profiles
  - Up to 10 steps per profile
- User interface via liquid crystal display and 16 key keypad

# MSD-970-1 Specifications

- Input Power
  - 240 Vac, single phase, 60 Hz, 30 amps
- Operating Temperature
  - 0 - 40 degrees C
- Dimensions
  - 12 5/8” x 21” x 22”

# MSD-970-1 Specifications

- Constant current charge (1 - 70 Amps)
- Constant potential charge (2 - 40 Volts)
- Charge termination by
  - Voltage
  - Current
  - Temperature
  - Time
  - Negative voltage slope sensing

# MSD-970-1 Specifications

- Constant current discharge (1 - 70 Amps)
- Discharge termination by
  - Voltage
  - Temperature
  - Time
- Open circuit stand termination (time)

# MSD-970-1 Specifications

- Capacity Test within the 10 step profile
  - Example (7 Steps)
    - Step 1:  Constant Voltage to Current Cutoff
    - Step 2:  Constant Current to Voltage Cutoff
    - Step 3:  Open Circuit Stand to Time
    - Step 4:  Constant Current Discharge to Voltage or Time
    - Step 5:  Open Circuit Stand to Time
    - Step 6:  Repeat steps 1 and 2

# MSD-970-1 Monitored Parameters

- Profile Statistics
- Elapsed Time
- Charge Current
- Charge Voltage
- Temperature
- Ampere Hours

# Contact Information

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